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| Subramanian, V., D. Sivanesan and T. Ramasami, The role of solvent on the base stacking properties of the stacked cytosine dimer   | 290 (1998) 189 |
| Suleimenov, O.M. and T.-K. Ha, Ab initio calculation of the thermochemical properties of polysulphanes ( $H_2S_n$ )  | 290 (1998) 451 |
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Takasu, R., T. Taguchi, K. Hashimoto and K. Fuke, Microscopic solvation process of single Li atom in small water clusters 290 (1998) 481

Takeda, J., D.D. Chung, J. Zhou and K.A. Nelson, Intramolecular proton transfer of a 2-(2',4'-dinitrobenzyl)pyridine studied by femtosecond transient absorption spectroscopy 290 (1998) 341

Tan, H., M. Liao and K. Balasubramanian, Potential energy surfaces of OsCO 290 (1998) 458

Tang, J., Structural implications of transient X-, K- and W-band EPR spectra of deuterated and protonated reaction centers of *Rhodobacter sphaeroides* R-26 290 (1998) 49

Ting, L., see Guo-xin, C.

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Uzan, O. and J.M.L. Martin, Can Si=O bonds be stabilized by Rh/Ir complexes? A density functional theory study 290 (1998) 68

Vacar, D., A. Dogariu and A.J. Heeger, Ultrafast gain and excited-state absorption in luminescent polymers: pump-wavelength invariance 290 (1998) 58

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Wallington, T.J., H. Egsgaard, O.J. Nielsen, J. Platz, J. Sehested and T. Stein, UV-visible spectrum of the phenyl radical and kinetics of its reaction with NO in the gas phase 290 (1998) 363

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Werner, J.H. and T.A. Cool, Flame sampling photoionization mass spectrometry of dichloroethenol 290 (1998) 81

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Wright, J.C., see Lascola, R.

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Yoshizawa, M., K. Suzuki, A. Kubo and S. Saikan, Femtosecond study of S<sub>2</sub> fluorescence in malachite green in solutions 290 (1998) 43

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